

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) Publication number:

0 601 829 A3

(12)

EUROPEAN PATENT APPLICATION(21) Application number: **93309812.1**(51) Int. Cl.⁶: **H01R 13/00**(22) Date of filing: **07.12.93**

(30) Priority: **07.12.92 GB 9225573**
18.12.92 GB 9226481

(43) Date of publication of application:
15.06.94 Bulletin 94/24

(84) Designated Contracting States:
DE FR GB

(88) Date of deferred publication of the search report:
23.08.95 Bulletin 95/34

(71) Applicant: **MOD-TAP W CORPORATION**
285 Ayer Road,
P.O. Box 706
Harvard, MA 01451-0706 (US)

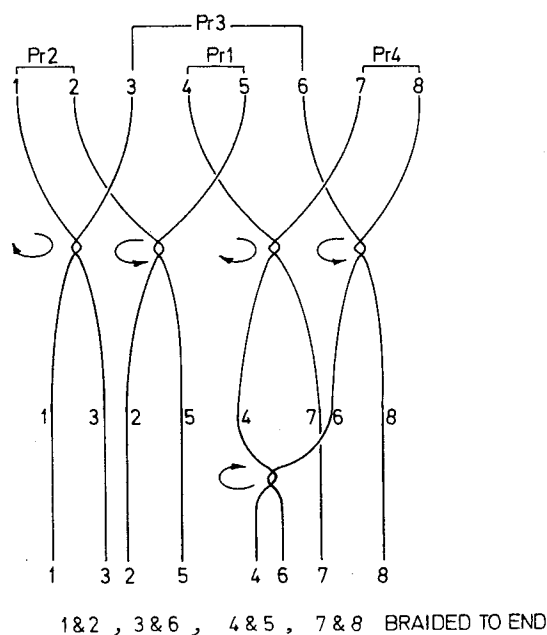
(72) Inventor: **White, Rowland Spencer**
68 Huntinghill Road
Lunenburg,
Massachusetts 01462 (US)
Inventor: **Cardigan, Robert Anthony**
The Haven,
Dannes Road
Awbridge,
Romsey SO51 0HL (GB)

(74) Representative: **Lloyd, Patrick Alexander**
Desmond
Reddie & Grose
16 Theobalds Road
London WC1X 8PL (GB)

(54) **Electrical connectors.**

(57) Cross-talk in RJ 45 type connectors can be reduced by twisting individual wires of a conductor pair with wires of another conductor pair. Alternate pairs may be twisted clockwise and counter clockwise and at least one further twisted pair may be formed from a wire of each of two twisted pairs. The wires may then be braided in their original conductor pair configurations.

Fig.5.

**EP 0 601 829 A3**



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

DOCUMENTS CONSIDERED TO BE RELEVANT			EP 93309812.1
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Y	<u>DE - B - 1 690 243</u> (LM ERICSSON) * Fig.; columns 1,2 *	1-3,5	H 01 R 13/00
A	* Fig.; columns 1,2 *	4,6-10	
Y	<u>DE - C - 1 083 880</u> (SIEMENS) * Fig.; claims *	1-3,5	
A	* Fig.; claims *	4,6-10	
A	<u>US - A - 4 945 189</u> (PALMER) * Fig. 2-5; abstract; claims *	1-3,6	
A	<u>EP - A - 0 424 205</u> (BULL) * Fig. 4,6,9a,12b; column 5, line 30 - column 6, line 10 *	1	
A	<u>US - A - 3 761 842</u> (GANDRUD) * Fig.; abstract; column 1, lines 10-40 *	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H 01 R 13/00 H 01 B 11/00 H 01 R 31/00 H 01 P 3/00
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 26-05-1995	Examiner KRAL
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	